



NITE-TIMES NEWS

CHICAGO AREA TIMEX- USERS GROUP

Chicago Area Timex Users Group
Volume 8, Number 4

Downers Grove, Illinois
July/August 1994

MEMORY MAP

ROUTINES

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C.A.T.U.G. CLUB OFFICERS

Here is the list of 1994 club officers and how to contact them. The club has two strong SIGS, SPECTRUM/TS2068 and QL. If you have questions about either of these fine machines, or even the ZX81/TS1000/TS1500, call one of the officers. C=312, S=708.

POSITION	NAME	PHONE	PRIMARY FUNCTION
President	Nazir Pashtoon	S439-1679	The buck stops here...
Vice-President	Steve Cooper	S968-3553	Meeting Planning, etc.
Secretary	Larry Sauter	C763-5383	Records and Reporting
Treasurer	Frank Mills	S544-1918	Dues and Purchasing
Editor	Bob Swoger	S576-8068	Newsletter, BBS, etc.

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NITE-TIMES news

Nite-Times Information

The **Nite-Times** News is the newsletter of the Chicago Area Timex Users Group. For an annual fee of \$12.00 you can become a CATUG member and receive six newsletters each year. Write your check payable to:

**FRANK MILLS
417 S 47th AVE
BELLWOOD IL 60104**

The Chicago Area Timex Users Group is pleased to exchange newsletters with other Timex and Sinclair supporting user groups at no charge. Send all newsletter requests to:

**CATUG EDITOR BOB SWOGER
613 PARKSIDE CIRCLE
STREAMWOOD IL 60107-1647**

If you desire to reprint any articles that appear here, please provide credit to the author and this newsletter.

We encourage your user group to copy this newsletter and distribute it at your regular meetings to your members free of any charge as we believe that this will encourage better meeting attendance. If you are a user group that feels as we do, please let us know in your newsletter so that we might do this for our members and keep our attendance up.

Articles originating from our group may be downloaded from our BBS and reprinted.

CONTRIBUTORS TO THIS ISSUE

**Les Cottrell
Al Feng
Frank Mills
Larry Sauter
Bob Swoger, K9WVY**

CLUB MEETINGS

The Chicago Area Timex Users Group meets on the **THIRD** Saturday of each month at the

home of our meeting coordinator Steve Cooper in Downers Grove, Illinois from 1:00 to 5:00 PM. Steve's home is lovingly called the CLUB HOUSE and is located at 1300 Maple Street in Downers Grove just 2 blocks southwest of the Downers Grove Public Library. Steve should always be contacted evenings at 708/968-3553 to confirm the meeting schedule.

TREASURY NOTES

The balance as of September 1, 1994 is \$364.43 Our current paid membership stands at 19.

Frank Mills, Treasurer
Chicago Area Timex Users Group

SECRETARY'S NotePad

July 23, 1994

The meeting came to order at 1:30 PM. Present were Frank Mills, John Donaldson, Phil Kwitkowski, Abed Kahale, Steve Cooper, Cy Herre, Jeff DeCourtney, Nazir Pashtoon and Bob Swoger.

Nazir reported that he had fixed Cy's QL with a new keyboard underlay printed circuit from Frank Davis of Mechanical Affinity. Once installed we never see that problem on QLs again. This is probably due to the fact that Frank's circuits are made of a different plastic material than the original first QLs used. This was noted with replacement keyboards on the ZX81/TS1000 machines. The old material was slightly brown when compared to the milky white of the replacements.

Nazir noted that 16 volt 1.5 amp power supplies were available in the latest NUTS AND BOLTS catalog for \$6.25 each. We voted to order 5 for our backup machines that were missing supplies.

Les Cottrell was called by Bob Swoger. Les had found that the schematic he had produced of the LarKen Disk Interface was indeed accurate. He had substituted like Logic ICs into Larry's circuit and found that Larry had used 'short cuts' that would allow no other devices to be used other than the ones he had chosen. Les reported that his copy of the LarKen Interface now worked perfectly.

After stating the next meeting dates, the Dayton Computerfest date of August 27 and 28, and the club picnic date of September 10.

The meeting was adjourned at 2:05 PM after which Bob gave a demonstration on the use of LOADER V and MTERM because he had recently been involved in an impossible file transfer situation with Secretary Larry Sauter. Unfortunately, Larry wasn't at this meeting.

August 21, 1994

The meeting came to order at 3:12 PM on this Sunday rather than on the usual Saturday to allow member Bob Swoger and his wife Annette to attend a church camp retreat. (Thanks guys, we had a wonderful time. Ed.) Present were Abed Kahale, Jeff Decourtney, Nazir Pashtoon, Bob Swoger, Phil Kwitkowski and Steve Cooper.

Steve Cooper brought out Spectrum tape programs to show Jeff Decourtney the nature of UK program packaging and overall art quality. Bob Swoger noted that he had never seen these programs before and felt he would like to get these titles into the club library list, possibly converting them to LarKen disk format.

Bob noted that there is much software in North America which we simply don't know about. Swoger brought in the power

supplies purchased from NUTS AND BOLTS. Our TS2068 supplies deliver more than 20 volts when not connected to the machine. These supplies with the vender name TANDY delivered only 18.2 volts and due to their light weight and a molded in place torroid choke on the end of the cable nearest the computer, Nazir believed them to be switching power supplies. Rather than cutting off the 5.5 mm connector and installing a TS2068 connector, Nazir will make a short cable adapter for us.

One of the machines received from past member Al Sherman has a burned out SCLD chip. Nazir stated that there is just no replacement for it and that he can not therefore resurrect that machine. He is hoping to get a second machine going to encourage a presently non user to have a machine and become a member. How is that SPIRIT, readers?

Nazir Pashtoon received an uninterruptable power supply (UPS) in non-working condition. For you readers who are unfamiliar with the use of UPSs, when A UPS is added to your system, a surprise loss of power to your home, your system stays running at least long enough to do a save of your precious data. Good Luck on getting it going, Nazir!

The QL Hacker was received from Tim Swenson of Ohio and will be pasted on to John Donaldson when he returns from vacation.

A copy will also be given to Abed for inclusion in ZXir QLive Alive!.

Bob Swoger reported that he had phoned both Hugh Howie and George Chambers in regards to the information received from John Donaldson from George Chambers' OUT-OF-TOWNER newsletter that TTSUC would soon stop publishing the SINK-LINK newsletter.

The news seems to be that the users are many but the workers are non-existent. Bob just had to let both men know that US users felt that the SINK-LINK newsletter was without a doubt the best newsletter in the whole of North America, and if it does cease to exist, it can be proud of the work all of the contributors provided to the whole North American Sinclair community. We will be forever grateful for all the work done for the LarKen Interface System by the Canada group to give the rest of us LarKen users the tools that give us the versatility we now enjoy.

The meeting adjourned at 3:35 PM. Phil Kwitkowski and Bob Swoger helped Steve Cooper organize his newsletter collection.

Larry Sauter, Acting Secretary
Chicago Area Timex Users Group

From the EDITOR'S Disk

I continue my endeavor to get the newsletters caught up. Thanks for your support as we continue to receive your newsletters.

Bob Swoger, Editor
Chicago Area Timex Users Group

GATOR's TWISTED PAIR

!!! REMEMBER !!!
We have a 24 hour BBS and encourage you to exchange mail and contribute to the Download Section. Use it and have fun!

Call the BBS at 708-632-5558 and register. On your next call your security level will be increased to 5 on this RBBS and you will be able to have most privileges.

Bob Swoger, SYSop
Chicago Area Timex Users Group

ITEMS FOR SALE THROUGH THE CLUB

It has come to our attention that some LarKen Users are using something less than Version 3 firmware. The club will supply updated EPROMs, SYSTEM DISKS, and MANUALS for just \$5 which includes shipping and handling, free if ordered with LogiCall or Spectrum ROM.

If you are a LarKen LKDOS owner and would like a SPECTRUM V2 kit for your system we will supply an EPROM, socket and 74HCT32 for \$12 which includes shipping and handling. The install instructions are in your LarKen manual. We shall not be responsible for your install job. AERCO owners need only the SPECTRUM EPROM for \$10

If you have a mismatch between you LarKen DOS EPROM and your Western Digital Controller chip, we will send you the correct one for free on behalf of our friends Rod Gowen of RMG and Larry Kenny of LarKen. You should be using L3 EPROMs with WD1770 controller chips or L3F EPROMs with WD1772 controller chips. Check it out! Call in requests to Bob Swoger at W708-576-8068 H708-837-7957

SPECIAL DEALS AND BUYS

NAP Ware (Nazir A. Pashtoon's new endeavor) announces the availability of all Timex or QL PAL (Programmable Array Logic) chips. If interested, call him evenings on 708-439-1679.

LogiCall Integrated Software Ensemble easy operating system for LKDOS in both TS2068 and Spectrum modes includes LogiCall 5.4 TASWORD TWO V2.8, VU-CALC V1.6, VU-FILE and MTERM2 Drivers modified for LogiCall, DISKS.B1 TAPES.B1 steprt.B1 HEADER.BT (tape header reader by Nazir Pashtoon) FORMAT.B MOVE.BL and more all on 2 SSDD disks for \$15. You must specify your LKDOS EPROM version. If you already have a copy you are

encouraged to distribute copies to other LarKen LKDOS users for as you see by the price we are not in the business of making money on it, just making LarKen's LKDOS even better! Call in requests to Rod Gowen of RMG Enterprises or Frank Davis of Mechanical Affinity.

So you like to fly? The 747 Flight Simulator for Spectrum by Derek Ashton of DACC sold over 40K copies in EUROPE. Requires Spectrum Emulator. At this time supplied on LarKen SSDD disk only for \$10 which goes to Derek Ashton, now working at MOTOROLA with Bob Swoger. Call in requests to Bob at W708-576-8068 H708-837-7957

ARTICLES

LIL' AMP RIDES AGAIN!

by
Les Cottrell
108 River Heights Drive
Cocoa, FL 32922-6630

Many of you started with the ZX-80, ZX-81 or TS1000, TS1500 like I did. (Actually I started with a ZX-80 clone called the MicroAce.) Anyway the point is that we all experienced LOADING difficulties from time to time. One of the cures was to use a little battery powered amplifier from Radio Shack to boost and clean up the signal. I expect many of you have one.

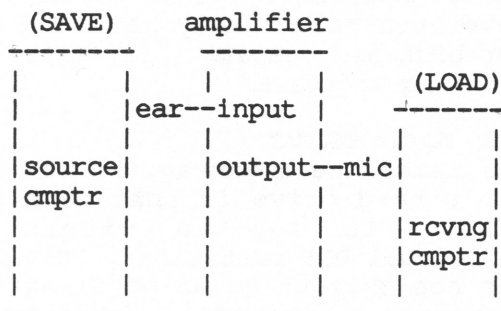
I have recently added a Zebra Timex disk drive to my collection. I needed to transfer some files from the LarKen system to the Zebra and a 3" disk is hardly compatible with a 3 1/2" drive!

I had already learned to move a program from my LarKen computer to a second computer using the LIL' amp. First connect up the source computer ear output to the amplifier input. Then connect the amplifier output to the mic input of the second computer. I have found that about 3/4 volume setting on the amplifier works well, but that

may vary for your application. The receiving computer is set up to receive a tape LOAD while the source computer is set up to do a tape SAVE. Start the LOADING sequence on the receiving computer before you start the source computer saving.

If you are moving to a different disk system don't do a SAVE LINE xxx or it will autostart before you can change the disk commands. Modify any different disk commands prior to doing a disk save of course.

If you are moving a program that has a companion machine code program, check carefully to see which program should be moved first. If you are feeling clever you can set up the command line to do several operations in sequence. I discovered I needed to brush up on the tape LOAD and SAVE syntax.



I have found this to be a reliable way to move from LarKen to Zebra or vice versa. It is better than going from LarKen to tape and then tape to Zebra. It also is a good reminder as to why I went to disk in the first place!

QXL Notes

by
Al Feng

MIRACLE SYSTEMS' QXL is the reality first suggested by the 1986 vaporware named FUTURA. Though the QXL was introduced in North America two years ago, there are many minor points that have not been mentioned

elsewhere, and were not covered in the recently released manual (some of this information has already been shared and may yet appear elsewhere). My own lack of information is partially the result of my year at an Indian Mission as well as my decision to no longer be a QUANTA subscriber [I felt that QUANTA was too parochial in their outlook and non-UK members were apparently considered as an extraordinary postal nuisance]. For those not familiar with the QXL, it is an 8/16 bit PC-expansion card which uses a 20 MHz 68EC040 microprocessor whose operating system [SMSQ] emulates the Sinclair's QL computer's QDOS operating system. The PC is the host which shares its I/O devices with the QXL card. The QL's SuperBASIC has been superseded by the QXL's SBASIC. Both of the SMSQ and SBASIC replacements are supposed to be more robust than their original forms. Apparently, some quirks have been reluctantly retained for backward compatibility with existing software.

THE HARD DRIVE

The immediate advantage of the QXL's hard drive is that each WIN() is set up within individual DOS partitions. This was not obvious to me at first and is not clarified in the newly released manual, but is left up to the user to find out. Out of ignorance, I had reserved an entire hard disk partition for the QXL to use. So, when I went to FORMAT win1_24 and kept coming up "short" I was a bit perplexed. When I finally exited to DOS, I realized that my C: drive was now "full" and that there was a file called "QXL.WIN" in the C: drive DIRectory. HMMMmmmm. Oh, I get it ... I FORMatted WIN2_ and that appeared on my D: drive; WIN3_ ended upon my E: drive; and, WIN4_ was placed on my F: drive. If your PC's hard disk is not partitioned, then you can only have one WIN() drive. So, if you are using MS-

DOS 6.0+, and were too lazy to partition the hard disk, then you may want to go back and partition it into separate hard drives. Just as there are reasons to have hard drive partitions on your hard disk, there is definitely a reason for having separate WIN() drives. I found, quite by accident, that it is easier than one would like to corrupt a WIN() drive. I am pretty sure that my problems were the result of misusing FDFORMAT [Christopher H. Hochstaetter (Germany) via Tom Robbins]. My "user error" seems to create a problem for the rest of the system with both a 3.5" diskette and an SMSQ QXL.WIN file being corrupted. I think that the problem(s) occur when I inadvertently tried to read a 1.2 meg PC disk in the 5.25" drive which has been (for all intents and purposes) setup (?) to read a 720K drive. On one occasion, all the previously unused blocks on my E: drive became "bad sectors" (i.e., unusable). Bummer. Clearly, this problem can be avoided by being less careless (i.e., better disk labeling). WOW.Ö Okay, the files on the 3.5" disk were dupes, but the contents on win2_ were my DBEASY files! DON'T PANIC ... plenty of room on the life boats ... When I finally decided to DIR win2_, it seemed that most of the DIRectory came up, until it came time for the screen to scroll the filenames. Abruptly, the QXL began to plod. Essentially, the QXL was lost while looking at a corrupted 24 megabyte file.

I exited to DOS and looked at the QXL.WIN file to see what might still be there: <file>, <file>, <file> ... followed by an SMSQ error access message. I reckoned that if the files were still there AND the DIRectory was still "there" that I might be able to COPY the files to another DEvice. The key was to find which file(s) did NOT COPY as this would surely hang up

the QXL. In this instance, I determined that the last filename of the DIRectory was not available to me. Knowing that, I WCOPIed the contents of win2_ to ram1_ except for the last file. Obviously, if you have more than 4 megs of files, you should consider backing up to another DEvice. I then re-FORMATted win2_24, then WCOPIed the contents of ram1_ back to win2_. I then ran ARCHIVE from win1_, typed RUN "R" (this is how I start DBEasy having renamed DBEASY_PRG to R_PRG), and it was surely my lucky day, because the program ran flawlessly, and all necessary files were accessed without any problems. So, if you make the same mistake the odds are that you may have to reformat the particular WIN()_ drive. Worse yet, you may have to re-FORMAT the host drive! The advantage of having multiple WIN()_ hard drives as partition files on a PC host is that some diagnostic software for the QL may-or-may-not be available as of this writing.

SUPER MEDIA MANAGER may be useful, but, the one time I tried using it several years ago, it seemed to take quite a few hours to recover the files I wanted (including the learning curve). I am now very seriously considering getting a tape backup. Of course, if-and-when I get a tape backup for the PC host, I can selectively backup the QXL.WIN files exclusive of the PC files and sub-DIRectories.

STAT WIN2_

In the "early" days of getting acquainted with the QXL, I found that I could NOT get a DIRectory of win2_ from within QUILL. This was a bit perplexing as I did not have this problem with QLAMBer. It turns out that each win()_ needs to be accessed "manually" at least once before a PSION program (and, possibly others) can access them. This was remedied by adding the

statements: STAT win2_: STAT win3_: STAT win4_: STAT win5_ to a line of my BOOT. STAT returns the DEvice name and its size. Another situation (this is covered in the manual, but is worth noting) was that I initially forgot to indicate PAR USE "SER" (I think this has to indicate in upper case) and it appeared that SMSQ "crashed" when I went to PRINT a document. Fortunately, I had gotten into the habit of SAVING before PRINTing. Again, add the appropriate statement(s) to your BOOT program.

THE SCREEN

The first thing that you cannot help but notice is that on a 13" VGA monitor the pseudo-QL's screen display measures only 9.5" diagonally. I recall once thinking that I wanted a ten-inch or smaller monitor for my QL for portability. I was younger then. I do know that some people had made mention of using a 17" or larger monitor, but I am not certain that this will result in a larger net display since it will probably map out the pseudo-QL to a similar dimension, and not proportion. I did try a composite monitor (on an EGA card), a CGA monitor (with a CGA card), and a TTL monitor (just for the heck of it). None of these produced a usable display. Being the naive one, I should think that a device driver could be written which would map the display to better "fill" a VGA screen. I'm not holding my breath for this development, though it may be resolved with the yet to be released version. I guess I could sit a little closer to the monitor.

NOTE: Though I just received a new disk (labeled "SMSQ V2.47") from DIGITAL, it had "corrupted" files on it. I'll have to wait to see what changes were implemented.

THE KEYBOARD

Since the keyboard is hosted by the PC, you would think that there would not be any problems. This is not quite the case. The earliest versions of SMSQ did not map for what I will refer to as the North American layout established by IBM's Selectric series of typewriters (I may be incorrectly presuming that Canada has the same keyboard layout). SMSQ version 2.31 incorporates a KBD_TABLE command which resolves this. Regardless, a disconcerting QXL problem that I encountered was a wildly erratic keyboard. My host is a 20 MHz 386-DX clone with a Phoenix BIOS and a ZEOS RS keyboard. Simply stated, when using QUILL the cursor would occasionally race all over the text. In the worst case scenario, while attempting to delete a single character, lines-and-lines of text would disappear as the cursor "munched" along merrily until I hit the (ESC)ape key!

Well, the solution to this problem was discovered while I was tinkering with my QLAMBER program. At some point while making code changes I must have realized that the NUMLOCK key was "on" and I turned it "off" with the net result being that the DELETERious effect on the main part of the keyboard ceased. EUREKA. BUT when running the QXL as a TASK under TaskMAX (DR DOS 6.0) a spurious character generation occurs when entering the QXL Task. Of course, this will not be a factor if you have dedicated a host to your QXL card. Trial-and-error discovery revealed that the spurious character generation can be aborted by pressing a <CTRL> + <any_key(?)> combination. I use <CTRL> <C>. My "tests" showed that you CANNOT cut-and-paste from DOS to SMSQ. As far as I know, the QXL can not be RUN as a TASK from within WINDOWS 3.1.

QXL/NT

Well, QXL/NT [as in "(e)x(cel)l(e)nt" or "new technology"] is my designation for the yet unnamed (as of January 1995) 50 MHz 68060 daughtercard. If a 20 MHz QXL with SMSQ is supposed to be faster than a 50 MIPS work station, then you might well guess that this newest incarnation might be fast enough for Abed to use. (You're getting warm Al.) My guess is that it will be formally introduced at this Spring's MIRACLE in Oak Ridge (!?!). Based on the recent price reduction of the QXL, I would guess that the QXL/NT's initial price might be similar to the "old" QXL prices. WOW.

THE BOTTOM LINE

Based on hardware developments over the past three years, the QL apparently has "legs" and QDOS and SMSQ will probably remain as viable alternative to mainstream Operating Systems. Consequently, your wallet should be the only restraint from your upgrading to a QXL(/NT), or (SUPER) GOLD CARD. I can't wait to see what the QXL/NT can do!

HAPPY TRAILS,
AND COMPUTING, TO YOU ...

ADS

FOR SALE 950125

HARDWARE.....
COCO3 512K W/KEYBOARD EXTENDER
COCO3 128K BRAND NEW NEVER USED
RS-232 DELUXE MODEM PACK W/CBL
DUAL DISK DRIVES (5.25" & 3.5")
W/DISK DC-7 CONTROLLER
ADOS3 W/ORG. DISKS
SEGEATE 40 MEG H.D. W/ BURKE &
BURKE CONTROLLER (W/ CLOCK)
CASSETTE CCR-81 W/ CABLE

ROM-PAKS. (UNLIKELY ANY MANUALS)
.CHESS..RAD WARRIOR..TYPEMATE..
.SPECTACULATOR..EDTASM+..TETRIS
.SOKO-BAN..DOWNLAND...ROBOCOP..
.SUPER PITFALL....DRAGON FIRE..

.THEDXER(2).....MIND ROLL..
.SPRINGTER..CASTLE OF THAROOGAO

Deluxe JOYSTICKS (&SPARE PARTS)

HARDRIVE IS LOADED WITH MOST
HARDRIVE SOFTWARE LISTED ABOVE,
PLUS MOST 'MV' PATCHES APPLIED,
CONTAINS 'SHELLPLUS', PLUS MANY
DOWNLOADED SOFTWARE FROM
DELPHI... I AM NOT SURE IF
SELLING THE H.D. AS IS WOULD BE
IN VIOLATION OF COPYRIGHT LAWS.
IF SO, I WILL DELETE EVERYTHING
EXCEPT THE OS9, MV AND BOOT
SETUP.

SOFTWARE.....

NOTE: THESE ARE ORIGINAL DISKS
(SOME WITH MANUALS)

RS-DOS.....

TCE PROOFREADER....KIDS ON KEYS
TCE BUSINESS WRITER.....ADOS 3
EXTENDED ADOS3.....COLORSCAN
COCO MAC III W/COLOR DRIVER....
WARRIOR KING.....MINE RESCUE
SUPER TAPE/DISK TRANSFER..ROGUE
PRINT SPOOLER / ROMCRACK ..BASH
COLOR COMPUTER ARTIST..D.L.LOGO
LEISURE SUIT LARRY...SUB BATTLE
GHANA BWANA...MICRO ILLUSTRATOR
SHAMUS..CRYSTAL CITY..KIDWRITER
ALPHABET ZOO.....GOLDFINDER
DESERT RIDER.....UTILITIES DISK
MONEYOPOLY.....CARMEN SANDIEAGO
RAINBOW INDEXES (4 DISKS)..Z-89
MICKEY'S SPACE ADV.....DISKMAX
FRACTION FEVER.....SEASTALKER
MARTYS NIGHTMARE..KINGQUEST III
DISK UTIL 2.1
T&D DISK #46
T&D DISK #50
T&D DISK #55
T&D DISK #56
T&D DISK #58
T&D DISK #4 UTILITIES

OS9.....

OS9 LEVEL II.....SHELLMATE
LEVEL 2 TOOLS.....TOOLS 2
MULTI-VIEW.....DESKMATE 1
ZCLOCK..QUICKLETTER..ICON BASIC
KRONIS RIFT..CYBERVOICE...M-RAM
HYPER I/O.....COCO XT-RTC
DONALD DUCK PLAYGROUND...XT-ROM

MISC.....

COCO MAX II (NOT WORKING?)
MISC. ISSUES OF RAINBOW FROM
1983 TO PRESENT - MISC RAINBOW
BOOKS (OS9 & RSDOS)

WILL SELL ALL AS A BUNCH OR
INDIVIDUALLY - - MAKE AN OFFER.
CASHIER'S CHECK ONLY.

LEAVE MAIL ON DELPHI (RCPOLK)

Email rcpolk@delphi.com or
richp@comm.mot.com THANK-YOUC

FOR SALE 950123

Memotech 32K RAMPACK - great
shape used a couple times then
somehow my machine died - now
if you have a ZX81 or T/S-1000
that needs it ...

!!!!!!!!!!!!!! ALSO !!!!!!!!!!!!!
MemoCalc Spreadsheet Pack Great
shape and sill works. Want a
spreadsheet that's instant on?
Memocalc is for you! It'll use
whatever RAMPACK you have. This
is a great pair of products!
They both come with the little
booklet they give you with it.
I would like \$15 each or \$25
for BOTH! What a deal! Shipping
included!

D.G.Smith, R.415 Stone St.,
Johnstown PA 15906-1609
(814)535-6998. Thank you ;>

FOR SALE 950123

I also have a 'sort of' working
Atari 800XL with a DISK DRIVE!
The keyboard needs to be fixed
- when plugged in the computer
is dead and when you unplug it
it works (huh?) I've a small
quantity of disks for above
system and some parts that seem
to go with it - make a
reasonable offer above \$45 U-
FIX and save [or send it to Dan
Elliot and he'll fix it CHEAP!]
D.G.Smith, R.415 Stone St.,
Johnstown PA 15906-1609
(814)535-6998. Thank you ;>

FOR SALE 950123

Tandy CoCo1 with Extended BASIC
and over 3 Dozen (Rainbow/Hot
Coco or whatever) mags and some
Disks with a disk interface
that plugs into the cartridge
slot. If have some tapes also
and manuals and other assorted
goodies. I'm looking for at
least \$80 for ALL - I even have
the color mouse and a hires
interface as well as a Videotex

cartridge.

D.G.Smith, R.415 Stone St.,
Johnstown PA 15906-1609
(814)535-6998. Thank you ;>

WANTED: 950123

Any screen dumps, drivers, or
programs permitting the use of
Radio Shack CGP-115 Color
Graphic Printer (4-pen plotter)
with the T/S 2068. Tape, JLO,
or LarKen. ALSO: Looking for PC
Magazine, Volume 3 Number 23
Nov.27,1984?

D.G.Smith, R.415 Stone St.,
Johnstown PA 15906-1609
(814)535-6998. Thank you ;>

FOR SALE 950103

PACKARD BELL 486 DX24 20M HD
3.5 FDD TAPE B/U 2X CDROM DRIVE
MSMONEY MSWORKS \$1000 OBO
DAVE 708-205-2843

FOR SALE 950103

486SX 25MHZ PC 170M HD 14" .28
SVGA MONITOR 2M RAM 2400 MODEM
SOUND BLASTER MOUSE WINDOWS 3.1
DOS 6.2 3.5 & 5.25 FDD \$800
PAUL 708-830-5177

FOR SALE 941205

NEC Laptop w/ext FDD & RAM
1S/1P port int MODEM built in
WORDSTAR Spreadsheet Telecom
S/W Lt wt - int monitor \$200
OBO 708-359-7293

FOR SALE 941205

286AT 1MB RAM 30 MB HD 360K &
1.44 MEG FDDS MINI TOWER MODEM
MOUSE 2S/1P ports DOS 6.2 &
Windows 3.1 Lotus EGA \$450,
mono #\ \$300 OBO 708-359-7293

FOR SALE 941205

MAC Classic w/software w/Apple
dot matrix printer. \$550
David 708-381-6715

FOR SALE 941205

Hygain TH3 Jr Tri-band Beam
w/balun & rotor exc condition
\$175 OBO Dave 708-991-6810

FOR SALE 941107

Zenith Easy-PC 20 mg hard drive
B/W monitor 3 1/2" FDD easy to
use. \$200 OB. 708-228-1042
FOR SALE 941107

IBM XT Turbo 20mg HD 512K RAM
VGA monitor w/Epson LQ-510 24
pin printer US Robotics extrnl
modem \$200 for all.
708-726-0650

FOR SALE 941107

Atari 800 48K + BASIC cart.
FDD, interface module
printer modem color monitor
150+ game disks word processor
4 joy sticks \$85 OBO
Dan 708-359-7293

FOR SALE 941107

IBM AT CLONE 40M HD mono VGA
640K mouse 2400B modem 287 C/P,
lots of s/w 360K & 1.4M FDD
& more
\$350 OBO Dan 708-359-7293

FOR SALE 941107

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